Martin J Maiers

List of Publications by Year
in descending order

125 papers	10,416 citations	81900 39 h-index	34986 98 g-index
143 all docs	143 docs citations	143 times ranked	8231 citing authors

#	Article	IF	Citations
1	Nomenclature for factors of the HLA system, 2010. Tissue Antigens, 2010, 75, 291-455.	1.0	3,121
2	HLA Match Likelihoods for Hematopoietic Stem-Cell Grafts in the U.S. Registry. New England Journal of Medicine, 2014, 371, 339-348.	27.0	861
3	The Shaping of Modern Human Immune Systems by Multiregional Admixture with Archaic Humans. Science, 2011, 334, 89-94.	12.6	441
4	High-resolution HLA alleles and haplotypes in the United States population. Human Immunology, 2007, 68, 779-788.	2.4	417
5	Six-locus high resolution HLA haplotype frequencies derived from mixed-resolution DNA typing for the entire US donor registry. Human Immunology, 2013, 74, 1313-1320.	2.4	349
6	The effect of donor characteristics on survival after unrelated donor transplantation for hematologic malignancy. Blood, 2016, 127, 260-267.	1.4	245
7	The Effect of KIR Ligand Incompatibility on the Outcome of Unrelated Donor Transplantation: A Report from the Center for International Blood and Marrow Transplant Research, the European Blood and Marrow Transplant Registry, and the Dutch Registry. Biology of Blood and Marrow Transplantation, 2006, 12, 876-884.	2.0	241
8	Impact of allele-level HLA matching on outcomes after myeloablative single unit umbilical cord blood transplantation for hematologic malignancy. Blood, 2014, 123, 133-140.	1.4	239
9	Progress toward an efficient panel of SNPs for ancestry inference. Forensic Science International: Genetics, 2014, 10, 23-32.	3.1	211
10	Selection of unrelated donors and cord blood units for hematopoietic cell transplantation: guidelines from the NMDP/CIBMTR. Blood, 2019, 134, 924-934.	1.4	199
11	Common and wellâ€documented <scp>HLA</scp> alleles: 2012 update to the <scp>CWD</scp> catalogue. Tissue Antigens, 2013, 81, 194-203.	1.0	198
12	Common and Well-Documented HLA Alleles. Human Immunology, 2007, 68, 392-417.	2.4	194
13	Classification of HLA-Matching for Retrospective Analysis of Unrelated Donor Transplantation: Revised Definitions to Predict Survival. Biology of Blood and Marrow Transplantation, 2008, 14, 748-758.	2.0	186
14	The HLA dictionary 2008: a summary of HLAâ€A, â€B, â€C, â€DRB1/3/4/5, and â€DQB1 alleles and their association with serologically defined HLAâ€A, â€B, â€C, â€DR, and â€DQ antigens. Tissue Antigens, 2009, 73, 95-170.	1.0	184
15	HLA Diversity in the 1000 Genomes Dataset. PLoS ONE, 2014, 9, e97282.	2.5	179
16	New HLA haplotype frequency reference standards: Highâ€resolution and large sample typing of HLA DRâ€DQ haplotypes in a sample of European Americans. Tissue Antigens, 2003, 62, 296-307.	1.0	157
17	Development of an Unrelated Donor Selection Score Predictive of Survival after HCT: Donor Age Matters Most. Biology of Blood and Marrow Transplantation, 2018, 24, 1049-1056.	2.0	98
18	The Impact of Amino Acid Variability on Alloreactivity Defines a Functional Distance Predictive of Permissive HLA-DPB1 Mismatches in Hematopoietic Stem Cell Transplantation. Biology of Blood and Marrow Transplantation, 2015, 21, 233-241.	2.0	95

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19	Advances in the Selection of HLA-Compatible Donors: Refinements in HLA Typing and Matching over the First 20 Years of the National Marrow Donor Program Registry. Biology of Blood and Marrow Transplantation, 2008, 14, 37-44.	2.0	91
20	Revealing complete complex KIR haplotypes phased by long-read sequencing technology. Genes and Immunity, 2017, 18, 127-134.	4.1	89
21	Tracking human migrations by the analysis of the distribution of HLA alleles, lineages and haplotypes in closed and open populations. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 820-829.	4.0	86
22	Allele-Level Haplotype Frequencies and Pairwise Linkage Disequilibrium for 14 KIR Loci in 506 European-American Individuals. PLoS ONE, 2012, 7, e47491.	2.5	85
23	Availability of unrelated donors for hematopoietic stem cell transplantation for hemoglobinopathies. Bone Marrow Transplantation, 2003, 31, 547-550.	2.4	82
24	Amino acid substitution at peptide-binding pockets of HLA class I molecules increases risk of severe acute GVHD and mortality. Blood, 2013, 122, 3651-3658.	1.4	77
25	Estimation of HLA-A, -B, -DRB1 Haplotype Frequencies Using Mixed Resolution Data from a National Registry with Selective Retyping of Volunteers. Human Immunology, 2007, 68, 950-958.	2.4	74
26	On Modeling Human Leukocyte Antigenâ€“Identical Sibling Match Probability for Allogeneic Hematopoietic Cell Transplantation: Estimating the Need for an Unrelated Donor Source. Biology of Blood and Marrow Transplantation, 2016, 22, 410-417.	2.0	65
27	The HLA dictionary 1999: a summary of HLA-A, -B, -C, -DRB1/3/4/5, -DQB1 alleles and their association with serologically defined HLA-A, -B, -C, -DR and -DQ antigens. Tissue Antigens, 1999, 54, 409-437.	1.0	63
28	HapLogic: A Predictive Human Leukocyte Antigenâ€“Matching Algorithm to Enhance Rapid Identification of the Optimal Unrelated Hematopoietic Stem Cell Sources for Transplantation. Biology of Blood and Marrow Transplantation, 2016, 22, 2038-2046.	2.0	63
29	Genotype List String: a grammar for describing <scp>HLA</scp> and <scp>KIR</scp> genotyping results in a text string. Tissue Antigens, 2013, 82, 106-112.	1.0	56
30	Genetic risk variants in African Americans with multiple sclerosis. Neurology, 2013, 81, 219-227.	1.1	54
31	Role of HLA-B exon 1 in graft-versus-host disease after unrelated haemopoietic cell transplantation: a retrospective cohort study. Lancet Haematology,the, 2020, 7, e50-e60.	4.6	53
32	The distribution of HLA haplotypes in the ethnic groups that make up the Brazilian Bone Marrow Volunteer Donor Registry (REDOME). Immunogenetics, 2018, 70, 511-522.	2.4	51
33	A community standard for immunogenomic data reporting and analysis: proposal for a STrengthening the REporting of Immunogenomic Studies statement. Tissue Antigens, 2011, 78, 333-344.	1.0	50
34	An update to HLA Nomenclature, 2010. Bone Marrow Transplantation, 2010, 45, 846-848.	2.4	48
35	Validation of statistical imputation of alleleâ€level multilocus phased genotypes from ambiguous <scp>HLA</scp> assignments. Tissue Antigens, 2014, 84, 285-292.	1.0	48
36	A combined DPA1â^¼DPB1 amino acid epitope is the primary unit of selection on the HLA-DP heterodimer. Immunogenetics, 2012, 64, 559-569.	2.4	47

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37	8/8 and 10/10 High-Resolution Match Rate for the Be TheÂMatch Unrelated Donor Registry. Biology of Blood and Marrow Transplantation, 2015, 21, 137-141.	2.0	47
38	The HLA Dictionary 2004: a summary of HLA-A, -B, -C, -DRB1/3/4/5 and -DQB1 alleles and their association with serologically defined HLA-A, -B, -C, -DR and -DQ antigens. Tissue Antigens, 2005, 65, 1-55.	1.0	43
39	HLA dictionary 2004: Summary of HLA-A, -B, -C, -DRB1/3/4/5, -DQB1 alleles and their association with serologically defined HLA-A, -B, -C, -DR, and -DQ antigens. Human Immunology, 2005, 66, 170-210.	2.4	42
40	Race, Ethnicity and Ancestry in Unrelated Transplant Matching for the National Marrow Donor Program: A Comparison of Multiple Forms of Self-Identification with Genetics. PLoS ONE, 2015, 10, e0135960.	2.5	42
41	Genetic differentiation of Jewish populations. Tissue Antigens, 2010, 76, 442-458.	1.0	39
42	HLA class I haplotype diversity is consistent with selection for frequent existing haplotypes. PLoS Computational Biology, 2017, 13, e1005693.	3.2	38
43	Use of Cost-Effectiveness Analysis to Determine Inventory Size for a National Cord Blood Bank. Medical Decision Making, 2008, 28, 243-253.	2.4	36
44	World Marrow Donor Association guidelines for use of HLA nomenclature and its validation in the data exchange among hematopoietic stem cell donor registries and cord blood banks. Bone Marrow Transplantation, 2007, 39, 737-741.	2.4	35
45	HLA match likelihoods for Indian patients seeking unrelated donor transplantation grafts: a population-based study. Lancet Haematology,the, 2014, 1, e57-e63.	4.6	35
46	Hematopoietic stem cell donor registry strategies for assigning search determinants and matching relationships. Bone Marrow Transplantation, 2004, 33, 443-450.	2.4	34
47	Banking or Bankrupting: Strategies for Sustaining the Economic Future of Public Cord Blood Banks. PLoS ONE, 2015, 10, e0143440.	2.5	34
48	Fine-mapping of HLA associations with chronic lymphocytic leukemia in US populations. Blood, 2014, 124, 2657-2665.	1.4	33
49	Genetic editing of HLA expression in hematopoietic stem cells to broaden their human application. Scientific Reports, 2016, 6, 21757.	3.3	33
50	A comparative reference study for the validation of HLA â€matching algorithms in the search for allogeneic hematopoietic stem cell donors and cord blood units. Hla, 2016, 87, 439-448.	0.6	32
51	Significant variation between SNP-based HLA imputations in diverse populations: the last mile is the hardest. Pharmacogenomics Journal, 2018, 18, 367-376.	2.0	32
52	The HLA dictionary 2001: a summary of HLA-A, -B, -C, -DRB1/3/4/5, -DQB1 alleles and their association with serologically defined HLA-A, -B, -C, -DR, and -DQ antigens. Human Immunology, 2001, 62, 826-849.	2.4	31
53	Identification by random forest method of HLA class I amino acid substitutions associated with lower survival at day 100 in unrelated donor hematopoietic cell transplantation. Bone Marrow Transplantation, 2012, 47, 217-226.	2.4	31
54	Histoimmunogenetics Markup Language 1.0: Reporting next generation sequencing-based HLA and KIR genotyping. Human Immunology, 2015, 76, 963-974.	2.4	30

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55	The HLA Dictionary 2001: a summary of HLA-A, -B, -C, -DRB1/3/4/5, -DQB1 alleles and their association with serologically defined HLA-A, -B, -C, -DR and -DQ antigens. Tissue Antigens, 2001, 58, 109-140.	1.0	28
56	Minimum information for reporting next generation sequence genotyping (MIRING): Guidelines for reporting HLA and KIR genotyping via next generation sequencing. Human Immunology, 2015, 76, 954-962.	2.4	28
57	Haplotype associations of 90 rare alleles from the National Marrow Donor ProgramRR. Tissue Antigens, 2006, 67, 284-289.	1.0	27
58	HLA-A Disparities Illustrate Challenges for Ranking the Impact of HLA Mismatches on Bone Marrow Transplant Outcomes in the United States. Biology of Blood and Marrow Transplantation, 2009, 15, 971-981.	2.0	27
59	Comparative validation of computer programs for haplotype frequency estimation from donor registry data. Tissue Antigens, 2013, 82, 93-105.	1.0	26
60	Estimating KIR Haplotype Frequencies on a Cohort of 10,000 Individuals: A Comprehensive Study on Population Variations, Typing Resolutions, and Reference Haplotypes. PLoS ONE, 2016, 11, e0163973.	2.5	26
61	The HLA Dictionary 2001: a summary of HLAâ€A, â€B, â€C, â€DRB1/3/4/5 and â€DQB1 alleles and their association with serologically defined HLAâ€A, â€B, â€C, â€DR and â€DQ antigens. International Journal of Immunogenetics, 2001, 28, 565-596.	1.2	24
62	Large-scale DNA-based typing of HLA-A and HLA-B at low resolution is highly accurate specific and reliable. Tissue Antigens, 2000, 55, 352-358.	1.0	23
63	HLA Amino Acid Polymorphisms and Kidney Allograft Survival. Transplantation, 2017, 101, e170-e177.	1.0	23
64	Overview of registries, HLA typing and diversity, and search algorithms. Tissue Antigens, 2007, 69, 3-5.	1.0	22
65	Fourâ€locus highâ€resolution HLA typing in a sample of Mexican Americans. Tissue Antigens, 2009, 74, 508-513.	1.0	22
66	Measuring Ambiguity in HLA Typing Methods. PLoS ONE, 2012, 7, e43585.	2.5	22
67	Charting improvements in US registry HLA typing ambiguity using a typing resolution score. Human Immunology, 2016, 77, 542-549.	2.4	21
68	World Marrow Donor Association framework for the implementation of HLA matching programs in hematopoietic stem cell donor registries and cord blood banks. Bone Marrow Transplantation, 2011, 46, 338-343.	2.4	20
69	Power Laws for Heavy-Tailed Distributions: Modeling Allele and Haplotype Diversity for the National Marrow Donor Program. PLoS Computational Biology, 2015, 11, e1004204.	3.2	20
70	The HLA dictionary 1999: a summary of HLA-A, -B, -C, -DRB1/3/4/5, -DQB1 alleles and their association with serologically defined HLA-A, -B, -C, -DR, and -DQ antigens. Human Immunology, 1999, 60, 1157-1181.	2.4	19
71	HLA polymorphism and risk of multiple myeloma. Leukemia, 2016, 30, 2260-2264.	7.2	19
72	Next generation sequencing characterizes the extent of HLA diversity in an Argentinian registry population. Hla, 2018, 91, 175-186.	0.6	19

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73	Consumer (dis-)interest in genetic ancestry testing: the roles of race, immigration, and ancestral certainty. New Genetics and Society, 2019, 38, 165-194.	1.2	19
74	The HLA Dictionary 2004: a summary of HLA-A, -B, -C, -DRB1/3/4/5 and -DQB1 alleles and their association with serologically defined HLA-A, -B, -C, -DR and -DQ antigens. International Journal of Immunogenetics, 2005, 32, 19-69.	1.8	18
75	Unrelated donor search prognostic score to support early HLA consultation and clinical decisions. Bone Marrow Transplantation, 2016, 51, 1476-1481.	2.4	18
76	Multiplicative fitness, rapid haplotype discovery, and fitness decay explain evolution of human MHC. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14098-14104.	7.1	18
77	High-Resolution Match Rate of 7/8 and 9/10 or Better for the Be The Match Unrelated Donor Registry. Biology of Blood and Marrow Transplantation, 2016, 22, 759-763.	2.0	17
78	Use of a neural network to assign serologic specificities to HLA-A, -B and -DRB1 allelic products. Tissue Antigens, 2003, 62, 21-47.	1.0	16
79	16 th IHIW: Global analysis of registry HLA haplotypes from 20 Million individuals: Report from the IHIW Registry Diversity Group. International Journal of Immunogenetics, 2013, 40, 66-71.	1.8	16
80	High-resolution HLA Aâˆ¼Bâˆ¼DRB1 haplotype frequencies from the Ezer Mizion Bone Marrow Donor Registry in Israel. Human Immunology, 2016, 77, 1114-1119.	2.4	16
81	Collection and storage of HLA NGS genotyping data for the 17th International HLA and Immunogenetics Workshop. Human Immunology, 2018, 79, 77-86.	2.4	16
82	Maintaining updated DNA-based HLA assignments in the National Marrow Donor Program Bone Marrow Registry. Reviews in Immunogenetics, 2000, 2, 449-60.	0.7	16
83	Going back to the roots: effective utilisation of HLA typing information for bone marrow registries requires full knowledge of the DNA sequences of the oligonucleotide reagents used in the testing. Tissue Antigens, 2000, 56, 99-102.	1.0	15
84	Cord Blood Unit Access and Selection: 2010 and Beyond: Best Practices and Emerging Trends in Cord Blood Unit Selection. Biology of Blood and Marrow Transplantation, 2011, 17, S46-S51.	2.0	15
85	An update to the HLA Nomenclature Guidelines of the World Marrow Donor Association, 2012. Bone Marrow Transplantation, 2013, 48, 1387-1388.	2.4	14
86	Optimal Donor Selection for Hematopoietic Cell Transplantation Using Bayesian Machine Learning. JCO Clinical Cancer Informatics, 2021, 5, 494-507.	2.1	14
87	Stem cell donor HLA typing improves CPRA in kidney allocation. American Journal of Transplantation, 2021, 21, 138-147.	4.7	13
88	Information technology and the role of WMDA in promoting standards for international exchange of hematopoietic stem cell donors and products. Bone Marrow Transplantation, 2010, 45, 839-842.	2.4	12
89	Asymmetric linkage disequilibrium: Tools for assessing multiallelic LD. Human Immunology, 2016, 77, 288-294.	2.4	12
90	Improved accuracy of clinical HLA genotyping by next-generation DNA sequencing affects unrelated donor search results for hematopoietic stem cell transplantation. Human Immunology, 2018, 79, 848-854.	2.4	12

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91	Mapping molecular HLA typing data to UNOS antigen equivalents. Human Immunology, 2018, 79, 781-789.	2.4	12
92	GRIMM: GRaph IMputation and matching for HLA genotypes. Bioinformatics, 2019, 35, 3520-3523.	4.1	12
93	Chromosome Yâ€“encoded antigens associate with acute graft-versus-host disease in sex-mismatched stem cell transplant. Blood Advances, 2018, 2, 2419-2429.	5.2	11
94	Reducing ethnic disparity in access to highâ€quality HLAâ€matched cord blood units for transplantation: analysis of the Canadian Blood Services' Cord Blood Bank inventory. Transfusion, 2019, 59, 2382-2388.	1.6	11
95	Efficient Sequencing, Assembly, and Annotation of Human KIR Haplotypes. Frontiers in Immunology, 2020, 11, 582927.	4.8	11
96	Demographic history and selection at HLA loci in Native Americans. PLoS ONE, 2020, 15, e0241282.	2.5	11
97	Investigating the Association of Genetic Admixture and Donor/Recipient Genetic Disparity with Transplant Outcomes. Biology of Blood and Marrow Transplantation, 2017, 23, 1029-1037.	2.0	10
98	Machine Learning Approach to Predicting Stem Cell Donor Availability. Biology of Blood and Marrow Transplantation, 2018, 24, 2425-2432.	2.0	10
99	HLA haplotype frequency estimation for heterogeneous populations using a graph-based imputation algorithm. Human Immunology, 2021, 82, 746-757.	2.4	10
100	16th IHIW: Immunogenomic Dataâ€Management Methods. Report from the Immunogenomic Data Analysis Working Group (IDAWG). International Journal of Immunogenetics, 2013, 40, 46-53.	1.8	9
101	The association between HLA and non-Hodgkin lymphoma subtypes, among a transplant-indicated population. Leukemia and Lymphoma, 2019, 60, 2899-2908.	1.3	9
102	A Detailed View of KIR Haplotype Structures and Gene Families as Provided by a New Motif-Based Multiple Sequence Alignment. Frontiers in Immunology, 2020, 11, 585731.	4.8	9
103	The GL service: Web service to exchange GL string encoded HLA & KIR genotypes with complete and accurate allele and genotype ambiguity. Human Immunology, 2016, 77, 249-256.	2.4	8
104	A community standard XML message format for sequencing-based typing data. Tissue Antigens, 2007, 69, 69-71.	1.0	7
105	Identification of high-risk amino-acid substitutions in hematopoietic cell transplantation: a challenging task. Bone Marrow Transplantation, 2016, 51, 1342-1349.	2.4	7
106	Regarding â€œRecipients Receiving Better HLA-Matched Hematopoietic Cell Transplantation Grafts, Uncovered by a Novel HLA Typing Method, Have Superior Survival: A Retrospective Studyâ€. Biology of Blood and Marrow Transplantation, 2019, 25, e268-e269.	2.0	7
107	113-P. Human Immunology, 2006, 67, S127.	2.4	6
108	Prediction of HLA Genes from SNP Data and HLA Haplotype Frequencies. , 2012, , .		6

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109	East Meets Westâ€"Impact of Ethnicity on Donor Match Rates in the Ezer Mizion Bone Marrow Donor Registry. Biology of Blood and Marrow Transplantation, 2017, 23, 1381-1386.	2.0	6
110	Standard reference sequences for submission of <scp>HLA</scp> genotyping for the 18th International HLA and Immunogenetics Workshop. Hla, 2021, 97, 512-519.	0.6	6
111	Complementarity of Binding Motifs is a General Property of HLA-A and HLA-B Molecules and Does Not Seem to Effect HLA Haplotype Composition. Frontiers in Immunology, 2013, 4, 374.	4.8	5
112	Human leucocyte antigen (HLA)-A, -B, -C, -DRB1 and -DQB1 haplotype frequencies from 2491 cord blood units from Tamil speaking population from Tamil Nadu, India. Molecular Biology Reports, 2018, 45, 2821-2829.	2.3	5
113	Predicting HLA-DPB1 permissive probabilities through a DPB1 prediction service towards the optimization of HCT donor selection. Human Immunology, 2021, 82, 903-911.	2.4	5
114	Extensive haplotype diversity in African American mothers and their cord blood units. Tissue Antigens, 2013, 81, 28-34.	1.0	4
115	Modeling coverage gaps in haplotype frequencies via Bayesian inference to improve stem cell donor selection. Immunogenetics, 2018, 70, 279-292.	2.4	4
116	Assessment of HLA-B Genetic Variation with an HLA-B Leader Tool and Implications in Clinical Transplantation. Blood Advances, 2021, , .	5.2	4
117	Challenges for the standardized reporting of NGS HLA genotyping: Surveying gaps between clinical and research laboratories. Human Immunology, 2021, 82, 820-828.	2.4	4
118	Competing risks with missing covariates: effect of haplotypematch on hematopoietic cell transplant patients. Lifetime Data Analysis, 2013, 19, 19-32.	0.9	3
119	Donor Selection for Hematopoietic Stem Cell Transplant Using Cost-Sensitive SVM. , 2015, , .		3
120	High resolution HLA allele and haplotype frequencies for Arab donors in the Hadassah bone marrow donor registry. Human Immunology, 2019, 80, 823-827.	2.4	3
121	A new strategy for systematically classifying <scp>HLA</scp> alleles into serological specificities. Hla, 2022, 100, 193-231.	0.6	3
122	Diversity in exon 5 of HLA-Cå^—04:01:01G is significant in anthropological studies. Human Immunology, 2016, 77, 426-428.	2.4	2
123	Single haplotype admixture models using large scale HLA genotype frequencies to reproduce human admixture. Immunogenetics, 2019, 71, 589-604.	2.4	2
124	Negative Impact of KIR-Ligand Mismatch on Transplant-Related Mortality (TRM) in Umbilical Cord Blood Transplant (UCBT) Recipients.. Blood, 2005, 106, 2041-2041.	1.4	2
125	Re-creation of the genetic composition of a founder population. Human Genetics, 2008, 124, 417-421.	3.8	1